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NOTICE OF ALLOWANCE AND FEE(S) DUE

29855

20333 SH 249

7590

09/04/2008

WONG, CABELLO, LUTSCH, RUTHERFORD & BRUCCULERI,

SUITE 600 HOUSTON, TX 77070

EXAMINER ARANA, LOUIS M ART UNIT PAPER NUMBER

2831

DATE MAILED: 09/04/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,640	11/06/2006	Malcom Harris Levitt	301-0005US	7387

TITLE OF INVENTION: NMR SPECTROSCOPY USING SPIN STATES WITH LONG LIFETIMES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	12/04/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

appropriate. All further	correspondence includir ed below or directed oth	ng the Patent, advance or	JE FEE and PUBLICATI ders and notification of n a) specifying a new corres	naintenance fees w	ill be	mailed to the current of	orrespondence address as
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee(s) Transmittal. Thi rs. Each additiona	s certil Lpaper	ficate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
29855 WONG, CABI L.L.P. 20333 SH 249 SUITE 600		v2008 RUTHERFORD &	z BRUCCULERI,hei	Cer eby certify that thes Postal Service w	tificate is Fee(e of Mailing or Transn s) Transmittal is being ficient postage for first	deposited with the United class mail in an envelope bove, or being facsimile te indicated below.
HOUSTON, TX	77070		<u> </u>				(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/566,640 TITLE OF INVENTION	11/06/2006 : NMR SPECTROSCOF	PY USING SPIN STATE:	Malcom Harris Levitt S WITH LONG LIFETIMI	ES		301-0005US	7387
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0		\$1020	12/04/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
ARANA,	LOUIS M	2831	324-307000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee	data will appear on the part a substitute for filing an (B) RESIDENCE: (CITY	ntent. If an assign assignment. and STATE OR C	OUNT	TRY)	cument has been filed for up entity
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			o. Payment of Fee(s): (Plea	d. Form PTO-2038	is attage the	nched. required fee(s), any def	·
**	s SMALL ENTITY state	ıs. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regi	stered	attorney or agent; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N	Го		
This collection of inform an application. Confiden submitting the complete	nation is required by 37 C tiality is governed by 35 d application form to the	CFR 1.311. The information U.S.C. 122 and 37 CFR U.S.P.TO. Time will vary	on is required to obtain or r 1.14. This collection is est depending upon the india of Chief Leternation Office	etain a benefit by t imated to take 12 i idual case. Any co	he pub ninutes mment	lic which is to file (and s to complete, including ts on the amount of tim	by the USPTO to process) gathering, preparing, and e you require to complete

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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29855 7:	590 09/04/2008		EXAM	IINER
WONG, CABEL	LO, LUTSCH, RUT	ARANA, LOUIS M		
L.L.P.	,	ART UNIT	PAPER NUMBER	
20333 SH 249 SUITE 600 HOUSTON, TX 7	7070	2831 DATE MAILED: 09/04/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 242 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 242 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/566,640	LEVITT ET AL.
Notice of Allowability	Examiner	Art Unit
	Louis M. Arana	2831
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subjec	application. If not included on will be mailed in due course. THIS
1. 🔀 This communication is responsive to preliminary amendme	<u>ent 1/27/06</u> .	
2. ☑ The allowed claim(s) is/are <u>33-60</u> .		
 3. Acknowledgment is made of a claim for foreign priority unally all blooms and blooms are blooms. 1. Acknowledgment is made of a claim for foreign priority unall blooms. 2. Acknowledgment is made of a claim for foreign priority unall blooms. 3. Acknowledgment is made of a claim for foreign priority unall blooms. 3. Acknowledgment is made of a claim for foreign priority unall blooms. 4. All blooms and blooms are blooms. 5. Acknowledgment is made of a claim for foreign priority unall blooms. 6. Acknowledgment is made of a claim for foreign priority unall blooms. 7. All blooms are blooms. 8. Acknowledgment is made of a claim for foreign priority unall blooms. 9. Acknowledgment is made of a claim for foreign priority unall blooms. 9. Acknowledgment is made of a claim for foreign priority unall blooms. 9. Acknowledgment is made of a claim for foreign priority unall blooms. 9. Acknowledgment is made of a claim for foreign priority unall blooms. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of a claim for foreign priority. 9. Acknowledgment is made of	e been received. e been received in Application No.	· · · · · · · · · · · · · · · · · · ·
International Bureau (PCT Rule 17.2(a)).	cuments have been received in th	is national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit to the submit of the t	MENT of this application. itted. Note the attached EXAMINE	R'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give	. , -	aration is deticient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		0.040
(a) ☐ including changes required by the Notice of Draftspers	• ,	O-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' 		e Office action of
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	E	I Detent Application
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	5.	
 Information Disclosure Statements (PTO/SB/08), 	0. ☐ Interview Summa Paper No./Mail [7. ☐ Examiner's Amen	Date
Paper No./Mail Date <u>5/06</u>		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		ment of Reasons for Allowance
	9. 🔲 Other	

Application/Control Number: 10/566,640 Page 2

Art Unit: 2831

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Allowable Subject Matter

- 2. Claims 33-60 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: An apparatus or method that provides a sample and creates a quasi equilibrium nuclear spin ensemble state in the sample as claimed and that breaks at least one symmetry operation of the Hamiltonian operator of the component molecules of the sample or assigns a bit value to at least one spin state of the ensemble, is neither disclosed nor fairly suggested by the prior art considered.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inventorship

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis M. Arana whose telephone number is (571) 272-2236. The examiner can normally be reached on M-Thurs. Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Louis M. Arana/ Primary Examiner, Art Unit 2831